

Template for ISB Documentation of Stressors

A. General Information:

1. Name or Location of Example/Approach: General

2. Literature/Citations Used: Folt, C.L., C.Y. Chen, M.V. Moore, J.A. Burnaford. 1999. Synergism and antagonism among multiple stressors. Limnology and Oceanography 44:864-877

3. Reviewer(s): V. Resh

B. Specific Questions:

1. What stressors are considered? Thermal stress, low food, toxicity on reproduction of Daphnia

2. Are stressors categorized? If so, how? As above

3. Are the relations between stressors and management objectives modeled, and if so, how? This paper reviews general models in terms of synergism and antagonism to multiple stressors. Experimental results are compared with comparative, additive or multiplicative stress effects models.

4. If stressors are prioritized, describe the general approach. Multiplicative and additive stress effects models overpredicted the effects of stressors in combination. Temperature was the highest stress and degree of stress was enhanced by low food and toxic exposure

5. How might this approach be relevant to Bay Delta? If models are to be used in prioritizing stressors, the specific type of model needs to be carefully worked out and described.

6. Follow up regarding additional questions/literature review/etc?